



1600

RAW SEQUENCE LISTING

DATE: 01/28/2003

PATENT APPLICATION: US/09/502,498A

TIME: 16:16:35

Input Set : A:\Killian.txt

Output Set: N:\CRF4\01282003\I502498A.raw

3 <110> APPLICANT: Kilian, Andrzej
 4 Bowtell, David
 6 <120> TITLE OF INVENTION: VERTEBRATE TELOMERASE GENES AND PROTEINS AND USES
 7 THEREOF
 9 <130> FILE REFERENCE: 082447-0102
 11 <140> CURRENT APPLICATION NUMBER: 09/502,498A
 12 <141> CURRENT FILING DATE: 2000-02-11
 14 <160> NUMBER OF SEQ ID NOS: 155
 16 <170> SOFTWARE: PatentIn Ver. 2.0

ERRORED SEQUENCES

10162 <210> SEQ ID NO: 155
 10163 <211> LENGTH: 622
 10164 <212> TYPE: PRT
 10165 <213> ORGANISM: Homo sapiens
 10167 <220> FEATURE:
 10168 <223> OTHER INFORMATION: N-Terminal Truncated Telomerase (ver.2); encoded
 10169 by SEQ ID NO:51, with Y Intron ORF3
 10171 <400> SEQUENCE: 155
 10172 Met Pro Arg Ala Pro Arg Cys Arg Ala Val Arg Ser Leu Leu Arg Ser
 10173 1 5 10 15
 10175 His Thr Arg Glu Val Leu Pro Leu Ala Thr Phe Val Arg Arg Leu Gly
 10176 20 25 30
 10178 Pro Gln Gly Trp Arg Leu Val Gln Arg Gly Asp Pro Ala Ala Phe Arg
 10179 35 40 45
 10181 Ala Leu Val Ala Gln Cys Leu Val Cys Val Pro Trp Asp Ala Arg Pro
 10182 50 55 60
 10184 Pro Pro Ala Ala Pro Ser Phe Arg Gln Val Pro Pro Arg Gly Arg Arg
 10185 65 70 75 80
 10187 Pro Ala Gly Val Glu Gly Gly Arg Gly Glu Pro Ala Thr Cys Gly Glu
 10188 85 90 95
 10190 Gln Arg Arg Arg Leu Arg Ala Leu Pro Pro Gln Val Ser Cys Leu Lys
 10191 100 105 110
 10193 Glu Leu Val Ala Arg Val Leu Gln Arg Leu Cys Glu Arg Gly Ala Lys
 10194 115 120 125
 10196 Asn Val Leu Ala Phe Gly Phe Ala Leu Leu Asp Gly Ala Arg Gly Gly
 10197 130 135 140
 10199 Pro Pro Glu Ala Phe Thr Thr Ser Val Arg Ser Tyr Leu Pro Asn Thr
 10200 145 150 155 160
 10202 Val Thr Asp Ala Leu Arg Gly Ser Gly Ala Trp Gly Leu Leu Leu Arg
 10203 165 170 175

Does Not Comply
Corrected Diskette Needed

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```

10205 Arg Val Gly Asp Asp Val Leu Val His Leu Leu Ala Arg Cys Ala Leu
10206                      180                      185                      190
10208 Phe Val Leu Val Ala Pro Ser Cys Ala Tyr Gln Val Cys Gly Pro Pro
10209                      195                      200                      205
10211 Leu Tyr Gln Leu Gly Ala Ala Thr Gln Ala Arg Pro Pro Pro His Ala
10212                      210                      215                      220
10214 Ser Gly Pro Arg Arg Arg Leu Gly Cys Glu Arg Ala Trp Asn His Ser
10215 225                      230                      235                      240
10217 Val Arg Glu Ala Gly Val Pro Leu Gly Leu Pro Ala Pro Gly Ala Arg
10218                      245                      250                      255
10220 Arg Arg Gly Gly Ser Ala Ser Arg Ser Leu Pro Leu Pro Lys Arg Pro
10221                      260                      265                      270
10223 Arg Arg Gly Ala Ala Pro Glu Pro Glu Arg Thr Pro Val Gly Gln Gly
10224                      275                      280                      285
10226 Ser Trp Ala His Pro Gly Arg Thr Arg Gly Pro Ser Asp Arg Gly Phe
10227                      290                      295                      300
10229 Cys Val Val Ser Pro Ala Arg Pro Ala Glu Glu Ala Thr Ser Leu Glu
10230 305                      310                      315                      320
10232 Gly Ala Leu Ser Gly Thr Arg His Ser His Pro Ser Val Gly Arg Gln
10233                      325                      330                      335
10235 His His Ala Gly Pro Pro Ser Thr Ser Arg Pro Pro Arg Pro Trp Asp
10236                      340                      345                      350
10238 Thr Pro Cys Pro Pro Val Tyr Ala Glu Thr Lys His Phe Leu Tyr Ser
10239                      355                      360                      365
10241 Ser Gly Asp Lys Glu Gln Leu Arg Pro Ser Phe Leu Leu Ser Ser Leu
10242                      370                      375                      380
10244 Arg Pro Ser Leu Thr Gly Ala Arg Arg Leu Val Glu Thr Ile Phe Leu
10245 385                      390                      395                      400
10247 Gly Ser Arg Pro Trp Met Pro Gly Thr Pro Arg Arg Leu Pro Arg Leu
10248                      405                      410                      415
10250 Pro Gln Arg Tyr Trp Gln Met Arg Pro Leu Phe Leu Glu Leu Leu Gly
10251                      420                      425                      430
10253 Asn His Ala Gln Cys Pro Tyr Gly Val Leu Leu Lys Thr His Cys Pro
10254                      435                      440                      445
10256 Leu Arg Ala Ala Val Thr Pro Ala Ala Gly Val Cys Ala Arg Glu Lys
10257                      450                      455                      460
10259 Pro Gln Gly Ser Val Ala Ala Pro Glu Glu Glu Asp Thr Asp Pro Arg
10260 465                      470                      475                      480
10262 Arg Leu Val Gln Leu Leu Arg Gln His Ser Ser Pro Trp Gln Val Tyr
10263                      485                      490                      495
10265 Gly Phe Val Arg Ala Cys Leu Arg Arg Leu Val Pro Pro Gly Leu Trp
10266                      500                      505                      510
10268 Gly Ser Arg His Asn Glu Arg Arg Phe Leu Arg Asn Thr Lys Lys Phe
10269                      515                      520                      525
10271 Ile Ser Leu Gly Lys His Ala Lys Leu Ser Leu Gln Glu Leu Thr Trp
10272                      530                      535                      540
10274 Lys Met Ser Val Arg Asp Cys Ala Trp Leu Arg Arg Ser Pro Gly Val
10275 545                      550                      555                      560
10277 Gly Cys Val Pro Ala Ala Glu His Arg Leu Arg Glu Glu Ile Leu Ala

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10278					565				570					575		
10280	Lys	Phe	Leu	His	Trp	Leu	Met	Ser	Val	Tyr	Val	Val	Glu	Leu	Leu	Arg
10281				580					585					590		
10283	Ser	Phe	Phe	Tyr	Val	Thr	Glu	Thr	Thr	Phe	Gln	Lys	Asn	Arg	Leu	Phe
10284				595					600					605		
10286	Phe	Tyr	Arg	Lys	Ser	Val	Trp	Ser	Lys	Leu	Gln	Ser	Ile	Gly		
10287		610					615						620			
E--> 10295																

VERIFICATION SUMMARY

DATE: 01/28/2003

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TIME: 16:16:37

Input Set : **A:\Killian.txt**Output Set: **N:\CRF4\01282003\I502498A.raw**

L:1039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:1356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:1740
L:3364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:1860
L:9327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:0
L:9364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:0
L:9406 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:0
L:10295 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:155